SIEMENS

MammoReportPlus

SP

Installation Instructions

Installation of Graphic Cards

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all	all	01

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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Required Documents

- MammoReport^{Plus} Wiring Diagram (SPB7-420-844.20...)
- Installation and Start-up Instructions (SPB7-420.814.20...)
- Calibration of Monitors (SPB7-420.820.20...)

Required Tools, Measurement and accessories

NOTE	**All tools, measurement and aids, with the exception of those marked "*", are listed along with their specifications in the STC (Service Tools Catalogue).**

- Standard tool kit *

Text emphasis

⚠DANGER	**DANGER indicates when there is an immediate danger that leads to death or serious physical injury.**
⚠WARNING	**WARNING indicates a risk of danger that may lead to death or to serious physical injury.**
⚠CAUTION	**CAUTION used with the safety alert symbol indicates a risk of danger that leads to slight or moderate physical injury and/or damage to property.**
NOTICE	**NOTICE used without the safety alert symbol indicates a risk of danger that if disregarded leads or may lead to a potential situation which may result in an undesirable result or state other than death, physical injury or damage to property.**
NOTE	**NOTE contains information provided with special emphasis to facilitate proper use of the equipment or proper execution of a procedure, i.e. hints, tips.**

Symbols

Checks and adjustments that must be performed with radiation ON are identified by the radiation warning symbol.

This symbol means “Dangerous voltage”.

This symbol means “Attention, refer to the documentation”.

This symbol indicates components sensitive to Electro-Static Discharge (ESD).

Safety Information and Protective Measures

NOTICE

- **When performing service work and tests, please note:**

  - **the product-specific safety information in the document,**
  - **the safety information in TD00-000.860.01.. as well as**
  - **the safety information.**

⚠WARNING

Dangerous X-radiation during checks and adjustment work steps.

Risk of death or serious physical injury.

⚠WARNING

Risk of physical injury or death and property damage!
Observe

- **the product-specific safety information in these instructions,**
- **the general safety information in the instructions TD00-000.860.01... and**
- **the general safety information.**
- **Noncompliance can lead to death, physical injury or property damage.**

⚠WARNING

Electrical voltage!
Noncompliance can lead to death, physical injury or property damage.

After the system covers are removed, voltage-conducting parts can be touched. To prevent danger, the system must be disconnected from the line voltage before removing its covers. To do this, disconnect the system power plug or switch its power supply off and secure the power switch against accidental re-activation.
Any service required in connection with electrical voltage should be performed in accordance with general service information TD00-000.860.01... .

⚠WARNING

Electrical voltage!
Noncompliance can lead to death, physical injury or property damage.

After servicing the primary circuit of the ON/OFF assembly (e.g. replacing the ON/OFF assembly or any of its components), you must measure and record the equivalent leakage current (see system manual or logbook).

⚠WARNING

Danger of infection with pathogens!
Noncompliance can lead to death or physical injury.

This product is released for operation in operating rooms and can be contaminated with infectious blood or other body secretions.
Avoid all contact with blood or other body secretions!
Comply strictly with the preventive measures against infectious diseases specified in ARTD-002.731.37...!

⚠WARNING

Dangerous electrical voltage!

Noncompliance can lead to death, physical injury or property damage.

With the exception of measurement and test activities, work may not be performed on components under a voltage of more than 25V AC / 60 V DC according to ARTD-002.731.17...

After completing all service work and attaching all system covers, you must perform a protective ground wire test according to ARTD-002.731.17... .
The protective ground wire resistance must not exceed 0.2 Ohms.

⚠CAUTION

Risk of being burned by hot parts or components!
Noncompliance can lead to slight or medium burns, especially of the hands.

Once the covers have been removed, parts or components (e.g. power components, heat sinks, solenoid brakes) that can be touched which may exhibit temperatures of up to 50°C in operation. To prevent burns, switch off the system power supply before contacting any parts or components and let the system cool off for at least 5 minutes before resuming work.

⚠CAUTION

ESD Protection!
Noncompliance can lead to property damage.

ESD protection guidelines must be observed when servicing.

This chapter describes all the activities required to modify your workstation hardware (e.g. installing boards).

Read the supplied documentation before installing new boards.

Information about boards

Take care with the locking mechanisms (catches and centering pins) when you are replacing boards or components on boards.

To prevent damage to the board or the components and conductors on it, please take care when you insert or remove boards. Make sure expansion boards are inserted straight.

Never use sharp objects (screwdrivers) for leverage.

⚠CAUTION

Boards with electrostatic sensitive devices (ESD) are identifiable by the label shown.

When you handle boards fitted with ESDs, you must, under all circumstances, observe the following points:

- **You must statically discharge yourself before working with boards (e.g. by touching a grounded object).**
- **The equipment and tools you use must be free of static charges.**
- **Pull out the power plug before inserting or removing boards.**
- **Always hold boards with ESDs by their edges.**
- **Never touch pins or conductors on boards fitted with ESDs.**

Opening the Casing

1. Switch off the workstation. The workstation must not be in the energy-saving mode.

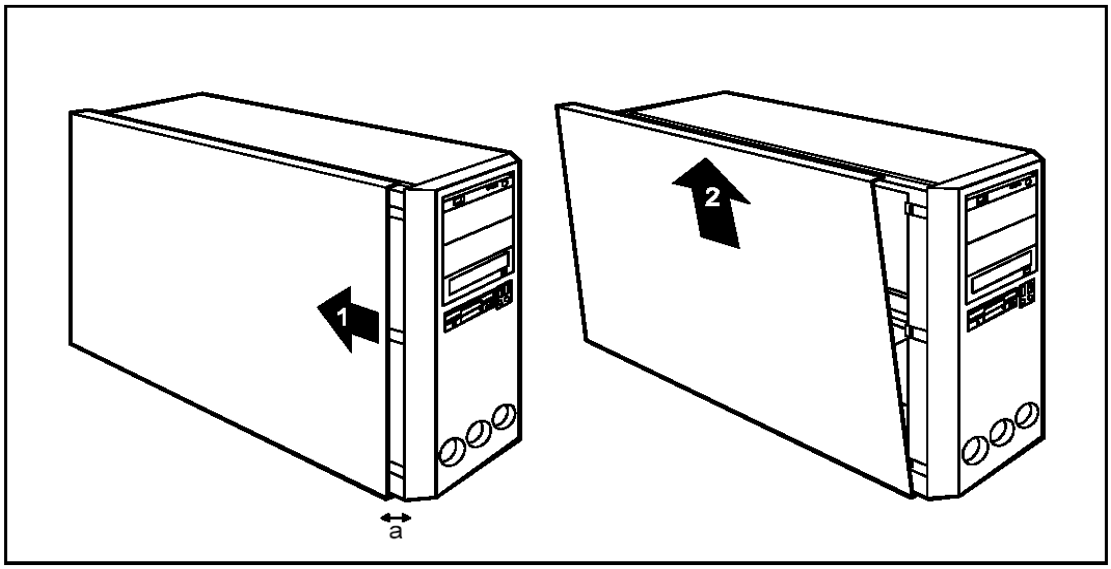
⚠CAUTION

Please take note of the safety information in the "Important notes" chapter.

Pull the power plug out of the mains outlet.

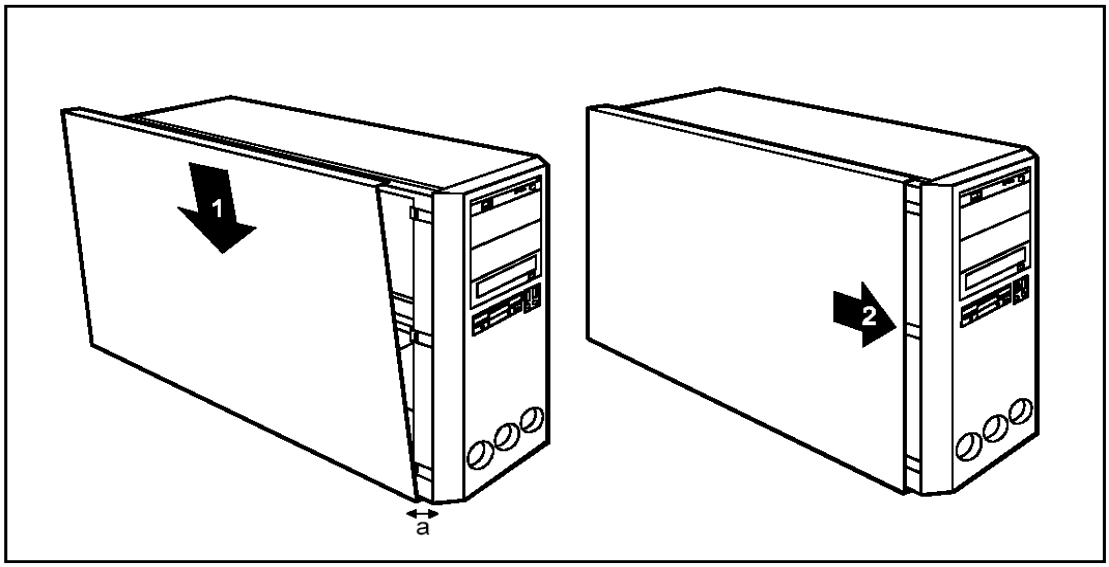
Only insert the power plug after you have closed the casing.

2. Remove any connected cables in the unit that obstruct you.
3. Place the device in a convenient working position.



4. Slide the side cover approximately 2 cm (a) in the direction of the arrow (1), until the stop.
5. Unhook the upper edge of the side cover from the casing.
6. Pull the side cover in the direction of the arrow of the casing.

Closing the Casing



1. Hook the side cover into the lower guide trail in the casing (1). Make sure that the side cover is offset by approximately 2 cm (a).
2. Engage the top edge of the side cover on the casing.
3. Push the side cover as far as it will go in the direction of the arrow (2).

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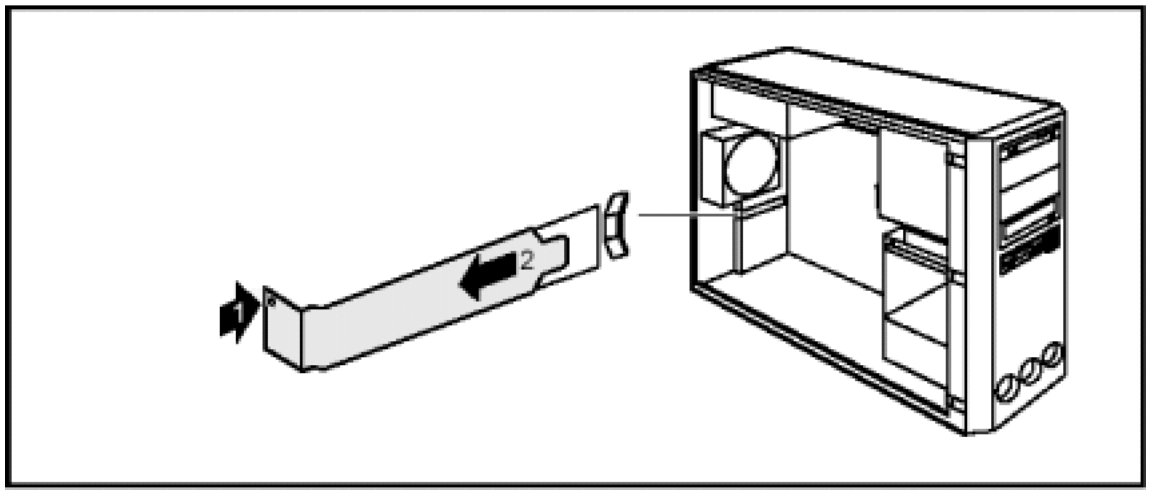
Please take note of the “Information about boards”.

The number, position and arrangement of the board slots on the mainboard can be found in the technical manual for the mainboard. Boards may already be installed when the device is shipped.

Installing a board

1. Open the casing (see "Opening the Casing").



2. Unscrew the screw (1) and unhook it.
3. Remove the rear slot cover plate from the slot (2).

Do not dispose of the cover plate. For cooling, protection against fire and in order to comply with EMC regulations, you must refit the cover plate if you remove the board.

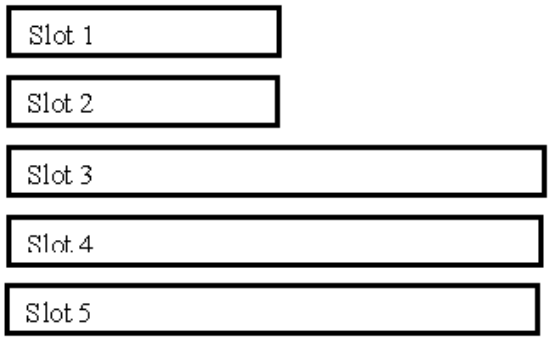
4. Make the required settings for the board.

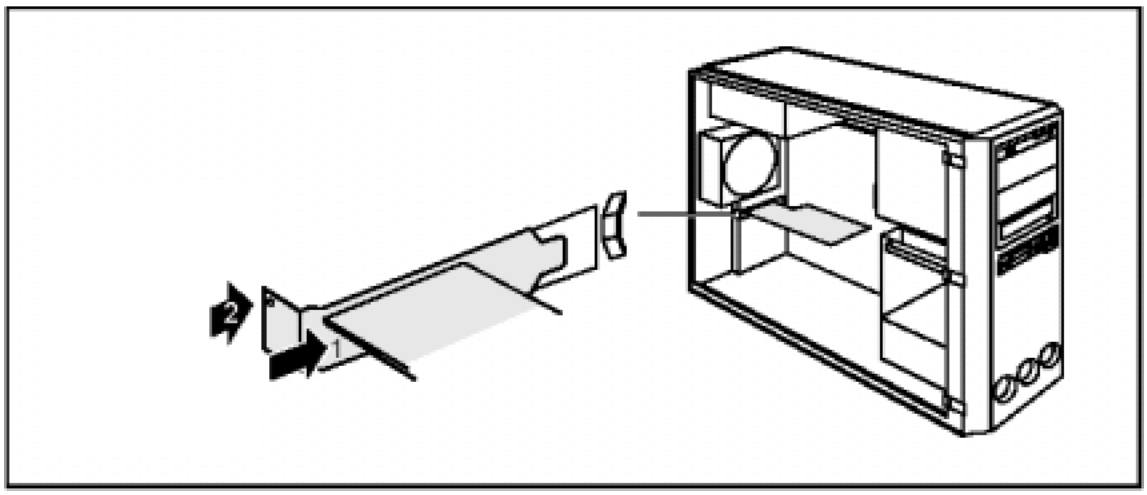
NOTE

Installing BARCO CRT Boards (5MP1HM: 2 boards)
- one in slot 3
- the other in slot 5.

Installing BARCO TFT Board (5MP2FH: 1 board)
- in slot 3

Installing MATROX TFT Board (Matrox MED5mp_DVI: 1 board)
- in slot 3





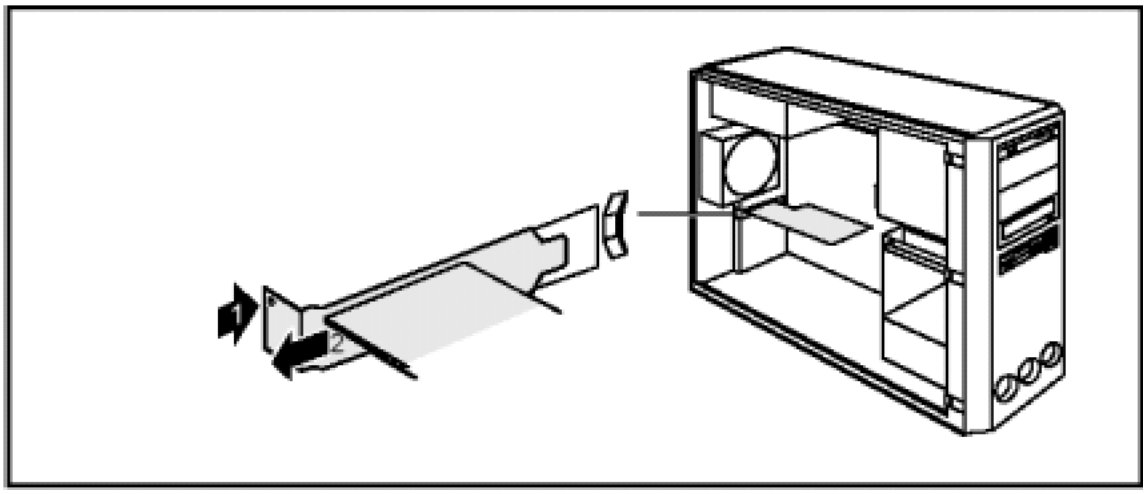
1. Push the board into its slot (1) as far as the stop.
2. Press the board into the slot so that it engages.
3. Put the screw into the hole and screw it in tightly (2).
4. If necessary, connect the cables.
5. Close the casing (see "Closing the Casing").

NOTE

If you have installed or removed a PCI board, please check the relevant PCI slot settings in the BIOS Setup. If necessary, change the settings. Further information is provided in the PCI board documentation.

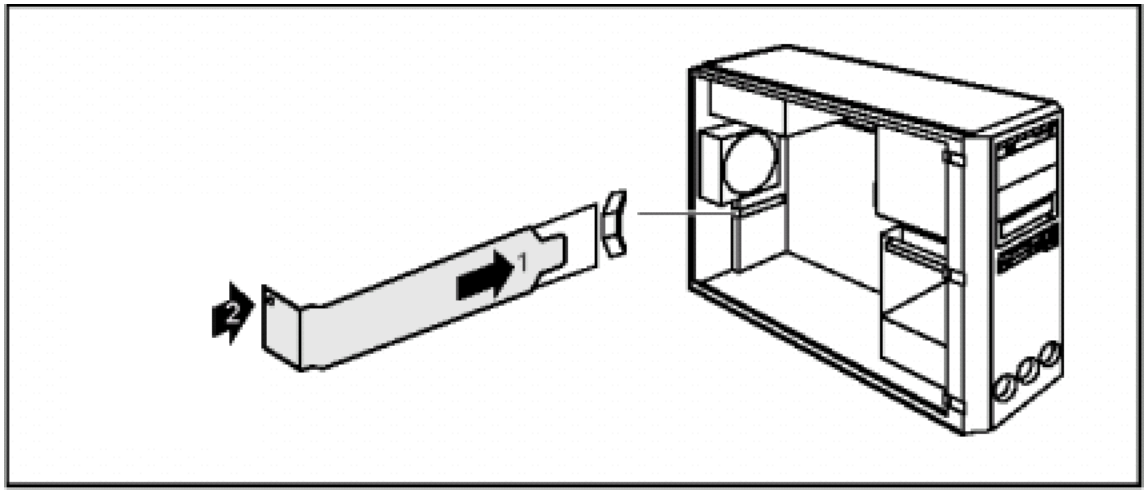
Removing a board

1. Open the casing (see "Opening the Casing").
2. Disconnect the cables connected to the board.



3. Unscrew the screw (1) and unhook it.
4. Remove the rear slot cover plate from the slot.
5. Remove the board from the casing (2).

For cooling, protection against fire, and in order to comply with EMC (electromagnetic compatibility) regulations, you must refit the cover plate.



6. Push the rear slot cover plate into the slot (1). Ensure that the point of the cover engages on the outside of the casing.
7. Put the screw into the hole and screw it in tightly (2).
8. Close the casing (see "Closing the Casing").

If you have installed or removed a PCI board, please check the relevant PCI slot settings in the BIOS Setup. If necessary, change the settings. Further information is provided in the PCI board documentation.

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